

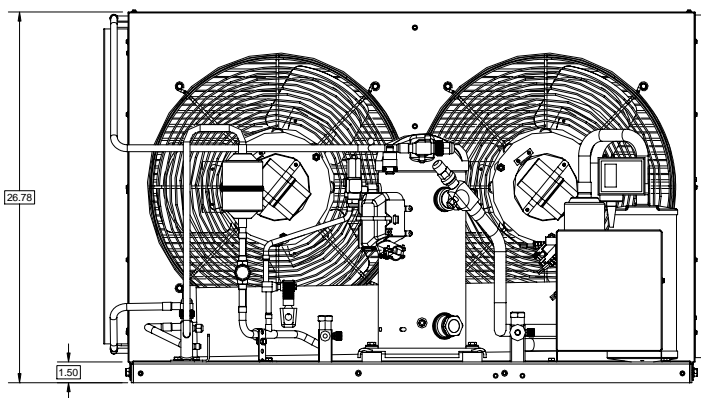
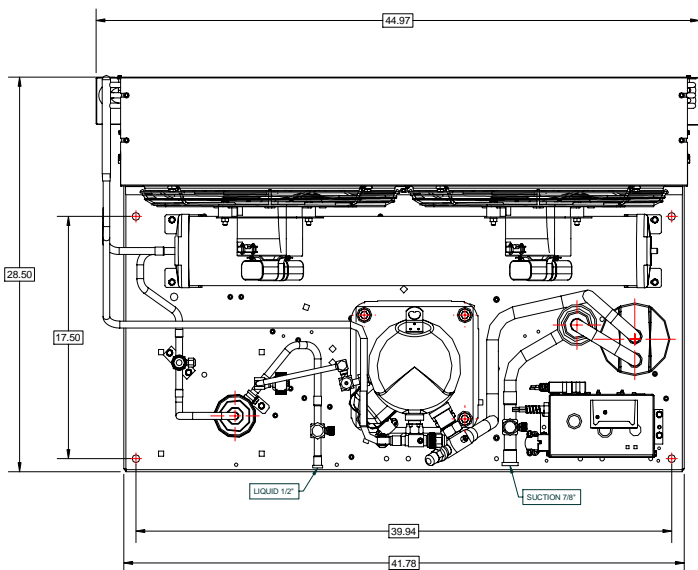
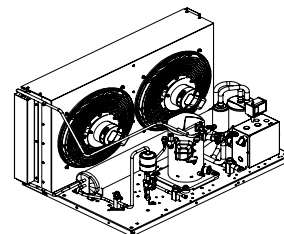


# TECUMSEH HERMETIC CONDENSING UNIT

VSAG513ZXTXM  
TPC preliminary  
October 14, 2011

**Model** VSAG513ZXTXM  
**BOM** 32T3242-2

**Air Cooled** 3 1/4 HP  
**Application** Low Temp  
**Refrigerant** R404A



VSAG513ZXTXM	Dimensions (inch)*			Line connections		Pumpdown	Air flow	Oil Ch.	Gross weight
	L	W	H	Suction	Liquid	90% @ 90°F	SCFM	Oz	Lbs.
	44.97	28.50	26.78	7/8 Sweat	1/2 Sweat	33.44	4200	55	285

\*) Mounting Holes, 17.50 x 39.94

Factory charge 20 psig dry air, **MUST BE EVACUATED**

Evaporator		Ambient Temperatures															
		80°F				90°F				100°F				110°F			
T, °F	PSIG	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T
-40	5.5	6400	2720	196	87	6000	2980	223	96	5600	3240	251	104	5000	3560	286	114
-35	8.0	7300	2770	199	88	6900	3020	227	97	6400	3290	256	106	5800	3620	292	115
-30	10.7	8400	2810	202	89	7900	3070	231	98	7300	3340	260	107	6600	3680	298	117
-25	14.0	9600	2850	205	90	9000	3110	235	99	8200	3390	264	108	7500	3740	302	118
-20	17.1	10900	2900	208	91	10200	3160	238	100	9300	3440	268	109	8400	3790	306	119
-15	19.3	12300	2950	211	92	11400	3210	241	101	10500	3490	271	110	9500	3850	310	120
-10	24.5	13900	3010	214	93	12800	3260	244	102	11700	3540	275	111	10600	3910	314	121
-5	28.8	15500	3080	217	94	14300	3320	248	103	13100	3600	278	112	11800	3970	317	122
0	33.5	17300	3150	221	96	15900	3380	251	104	14500	3660	282	113	13100	4030	321	122
5	36.5	19200	3230	225	97	17600	3460	256	105	16100	3730	286	114	14500	4100	324	123
10	43.7	21200	3320	231	99	19400	3540	260	107	17700	3810	290	115	16000	4180	328	124

Performance @ 60 Hz, Return gas 40°F, SubCooling 5°F

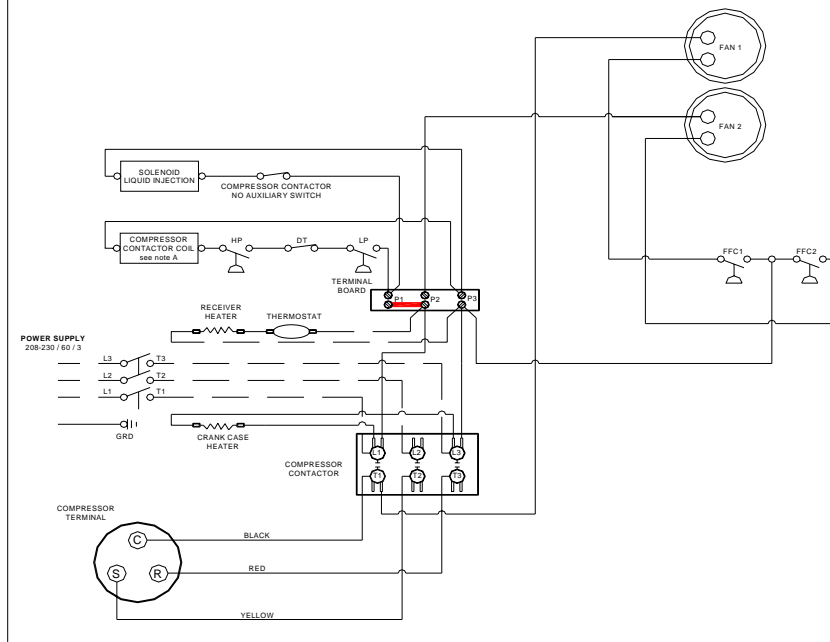
**PRELIMINARY PERFORMANCE DATA**

## Parts/Specifications

Unit BOM	32T3242-2	Fan Motor	810S186B40
Unit MODEL	VSAG513ZXTXM	Fan Motor Qty	2
		Fan Motor RLA	1.9
Refrigeration RANGE	-40°F to 10°F	Fan Blade	51528-3
Design Pressure Low	181	Fan Guard	70832
Design Pressure High	450	Shroud	70611-1
Volts - HZ - Ph	200-230V 3~ 60HZ		
Voltage Range	180 - 253	High Pressure switch	84095-2
Min. Circuit Ampacity	15.82	Low Pressure Control	84026-2
Max. Fuse Size	25	Dual Pressure Control	
Compressor MODEL	VSAG511ZXT	Condenser	50785-4
Compressor BOM	VS122RT-008-A4	Head Master Valve	
Compressor LRA	80	Check Valve	
Compressor RLA	9.62	Process Valve	
		Liquid Valve	
OverLoad	INTERNAL	Suction Valve	31529-2
Relay			
Run Capacitor		Receiver	51084
Run Capacitor Rating		Receiver Qty	1
Start Capacitor		Accumulator	TK00042000
Start Capacitor Rating		Liquid Filter	52000-164D
Contactor	91014B	Sight Glass	70084-2
		Suction Filter	70822-5S
Unit Drawing	DGU1950-13		
Wiring Diagram	WD23-2FL	CrankCase Heater	

### IMPORTANT:

COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET.  
USE COPPER CONDUCTORS ONLY.  
(EMPLOYER DES CONDUCTEURS DE CUIVRE SEULEMENT.)



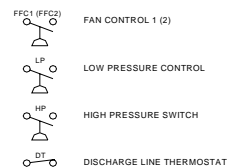
## NOTES

### FIELD WIRING NOTES

- ALL FIELD WIRING MUST BE DONE IN COMPLIANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.
- CONNECT INCOMING POWER LEADS FROM POWER SUPPLY TO L1, L2, AND L3 IN COMPRESSOR CONTACTOR OR TO L1, L2 AND L3 IN DISCONNECT SWITCH (IF PROVIDED). USE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVRE SEULEMENT.) PROVIDE EQUIPMENT GROUNDING CONDUCTOR.
- IF REQUIRED INSTALL SYSTEM REMOTE CONTROL BETWEEN P1 AND P2 IN TERMINAL BLOCK AND REMOVE THE JUMPER

### GENERAL NOTES:

- CONTACTOR COIL CIRCUIT IS FACTORY CONNECTED TO 230 V SOURCE IN PANEL AS SHOWN.
- COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET.



———— FACTORY COMPONENTS

----- OPTIONAL FACTORY COMPONENTS

———— OPTIONAL FIELD COMPONENTS

CONDENSING UNIT WIRING, 230V 60Hz 3 Ph,  
Liquid Injection Solenoid,  
Fan control,

REL  
REVISION

WD23-2FL